SMABS
SMART MODULAR AGRO BOT – SWARM

"The Future of Farming is Here - Efficient, Smart & Farmer Friendly"

WHAT IS IT?

A system of small, modular, solar-powered robots that work-together like a swarm of ants or bees to do various farm tasks—planting, weeding, pest scouting, spraying, harvesting, and monitoring soil and crop health—all in coordination with AI.

KEY FEATURES:

1. Modular Design : Attachable tools & modular hardware
2. Swarm Intelligence : Robots coordinate like ants or bees
3. AI + Real-time Decision Making : Learns from environment & past tasks
4. Solar Powered + Recharge Dock + GPS : 24/7 energy-efficient operation
5. Smartphone Control + Voice Assistant : Easy to control remotely

BENIFITS FOR FARMERS:

- No need to buy large expensive tractors
- Flexible, Affordable, Use 2-3 bots on a small farm, 10+ bots on a big farm
- Reduce Chemical Use(Only sprays where needed)
- Saves Time, Labour and Money

How It's Better Than Other Robots

	Other Robots	SMABS
Price	Very expensive	Affordable for small farmers
Power	Electric/Diesel	Solar-powered
Modularity	Fixed tools	Changeable tool modules
Control	Complex system	Easy Mobile App/Voice Control
Target User	Big farms only	All farmers (Especially Rural)

SMABS Working Methodology

Costing Chart (BDT)	
Component	Cost (৳)
Solar Panels	60,000
Hardware & Electronics	90,000
Sensors & Cameras	40,000
CSE + Programmer Salaries	70,000
Agronomists + Labours	60,000
Software + AI Development	60,000
Miscellaneous Testing + Deployment	90,000
Total	৳ 4,2,000–4,80000

HOW WE WILL SELL IT?

- Startup company focused on smart farming
- Government projects or NGO support
- Local distributors in farming zones
- Rental services in rural areas (pay per day or per task)
- EMI-based payment facilities
- Online platforms with app demo and farmer guides

ESTIMATED DEVELOPMENT TIME:

Prototype: 3 to 4 months

Field Testing: 2 months

Final Version: 6 to 8 months